

FIG. 1

24A

30

28

FIELD0

38

10

cd
00
01
11

ef
00
01
11

gh
00
01
11

48A
44A
45
49

24B

34

50

23

22C
22B
20
 $x = f(a,b,c,d,e,f,g,h,i)$

24C

FIELD1

gh
00
01
11

gh
00
01
11

gh
00
01
11

48B
24B

24C

FIG. 1

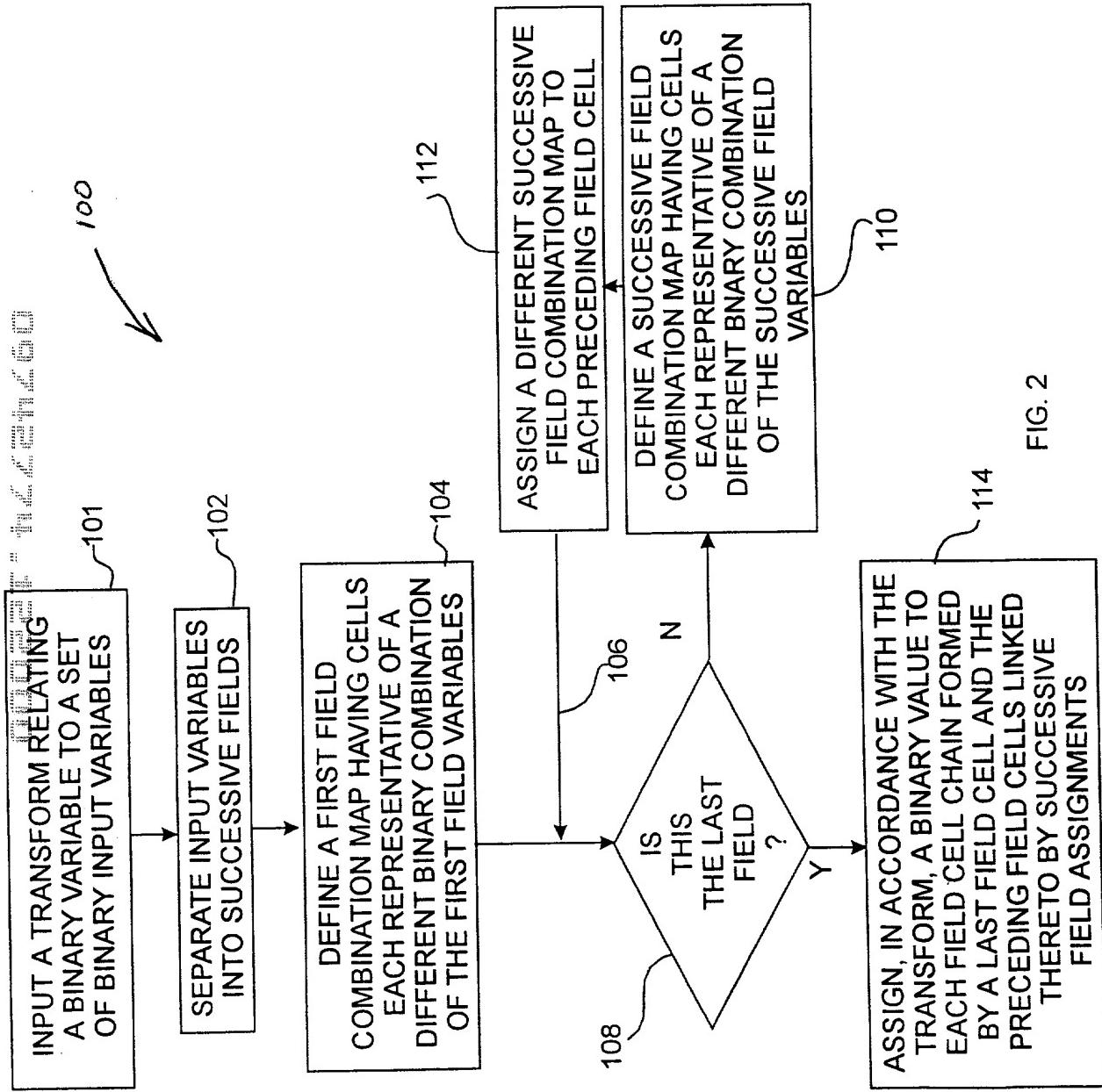


FIG. 2

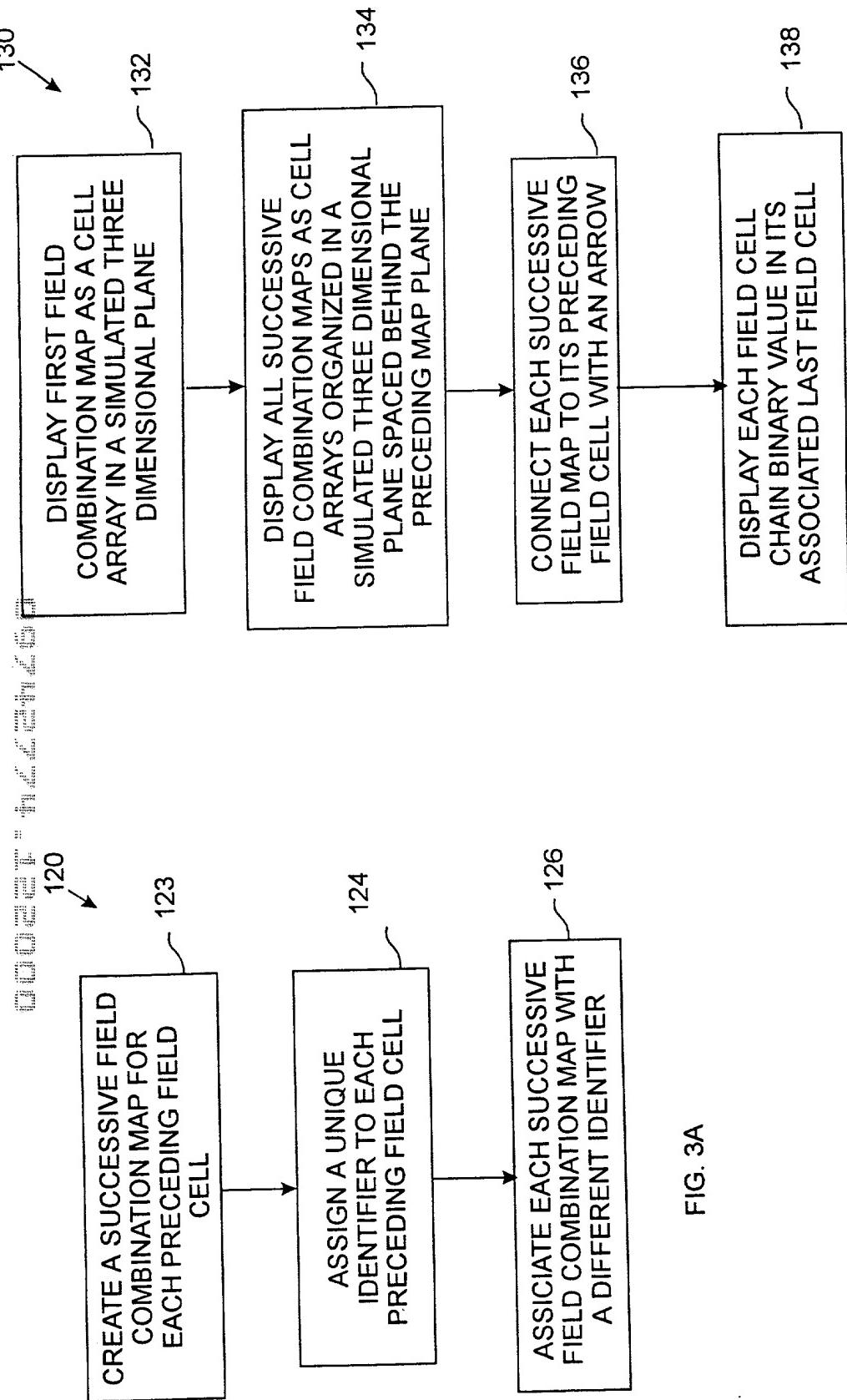


FIG. 3A

FIG. 3B

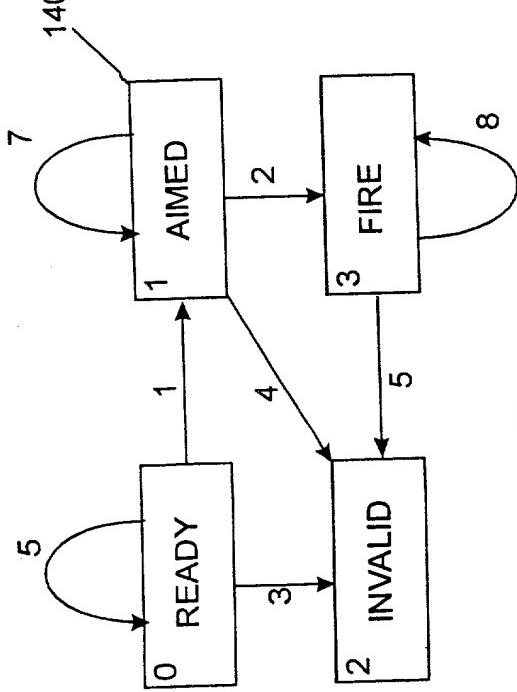


FIG. 4A

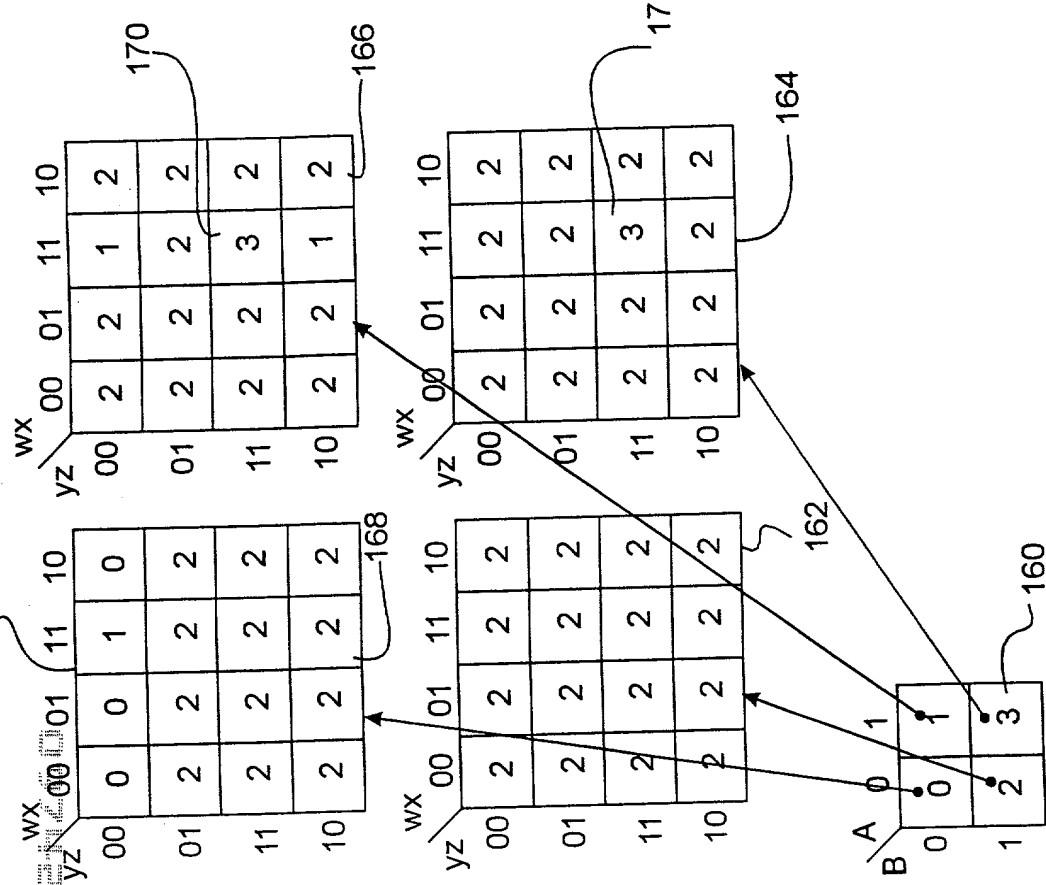


FIG. 4B

W = FUEL
X = COMPTR
Y = AIMED
Z = BUTTON

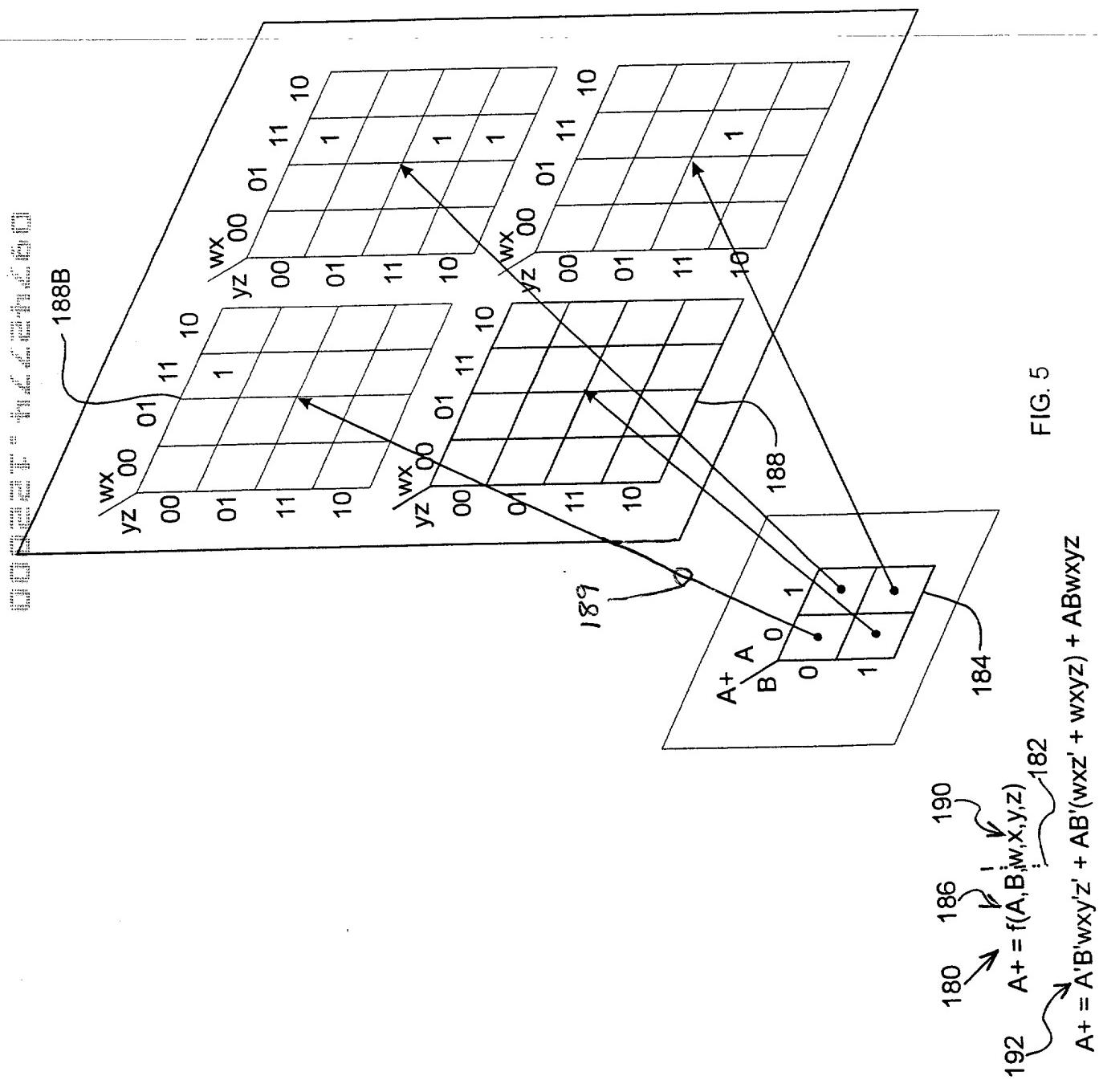


FIG. 5

FIG. 6A

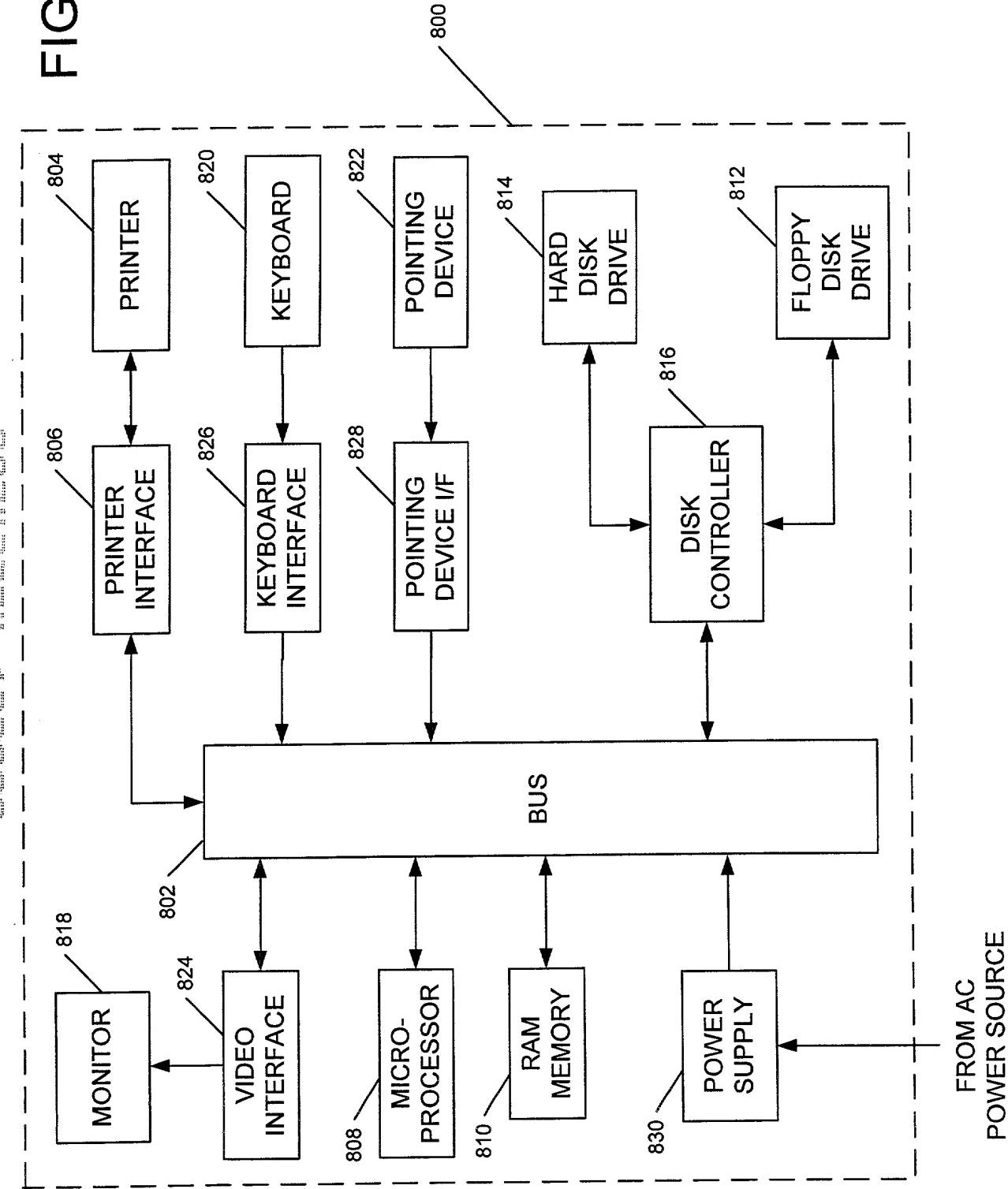
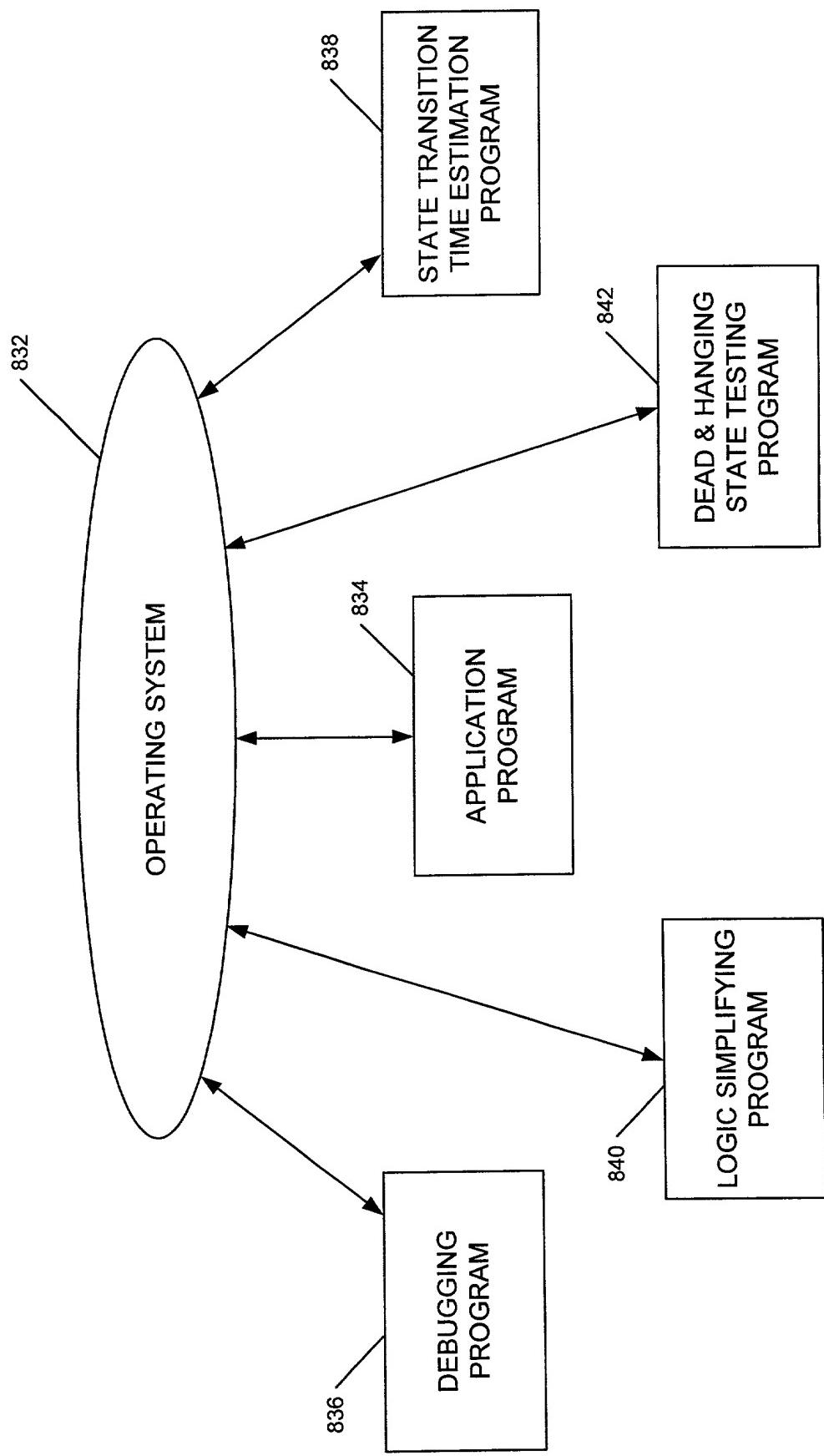


FIG. 6B



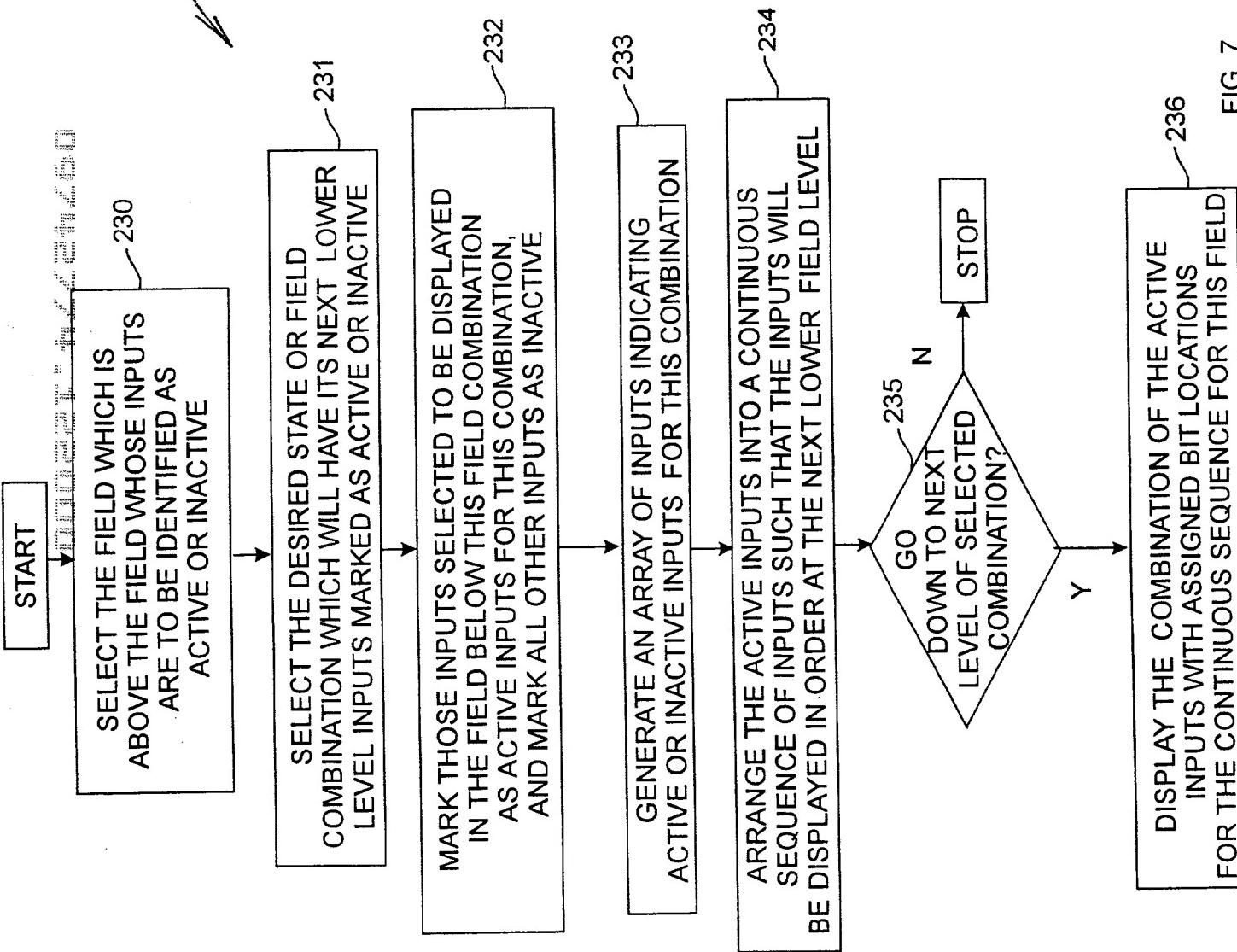


FIG. 7

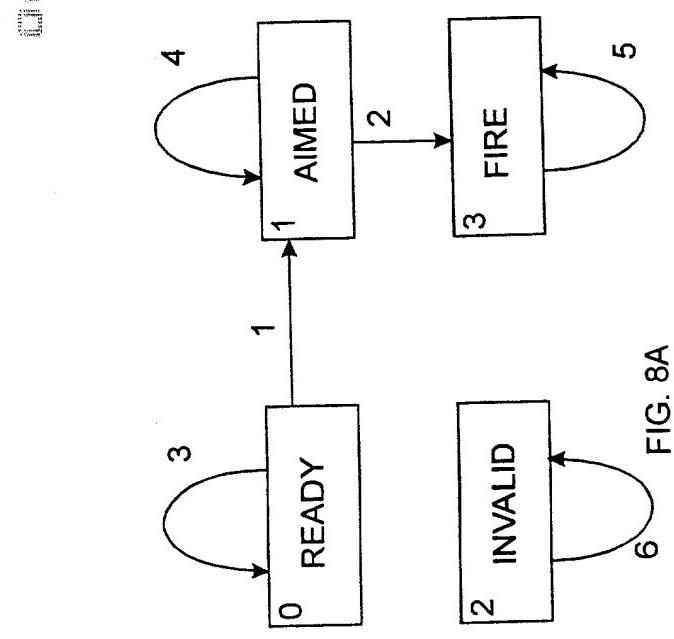


FIG. 8A

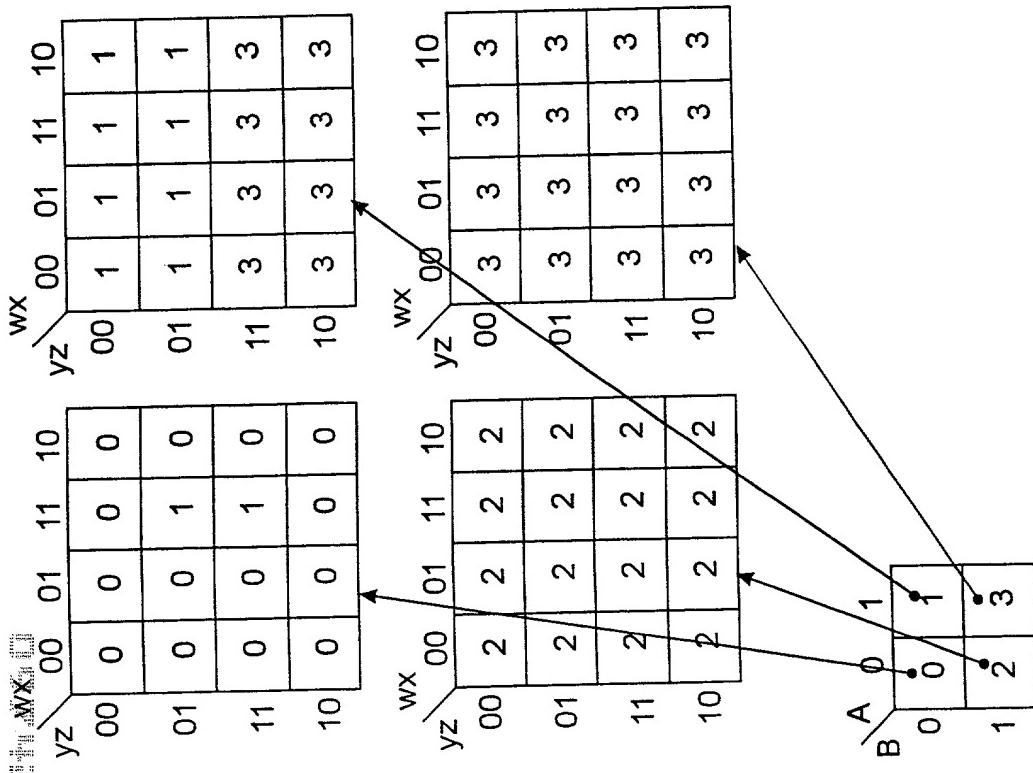


FIG. 8B

w = FUEL
x = COMPTR
y = AIMED
z = BUTTON

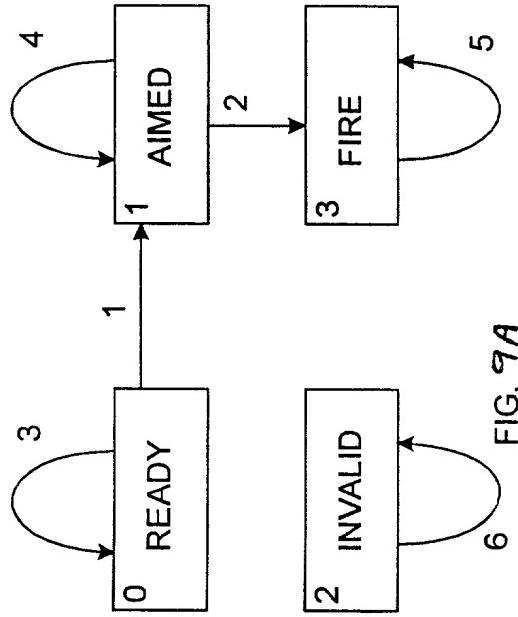
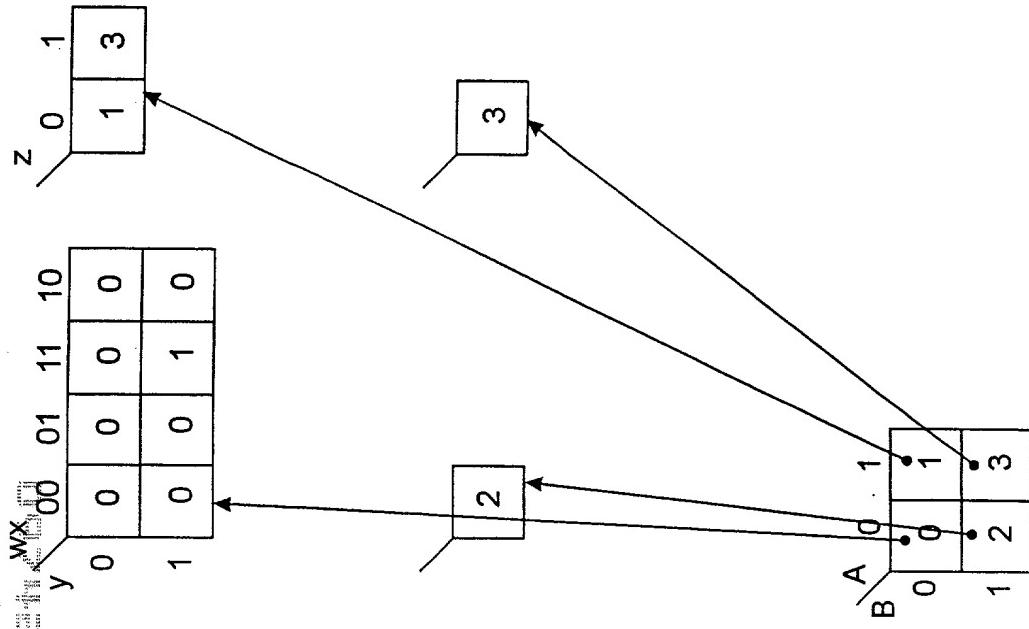


FIG. 9B

W = FUEL
X = COMPTR
Y = AIMED
Z = BUTTON

FIG. 9C

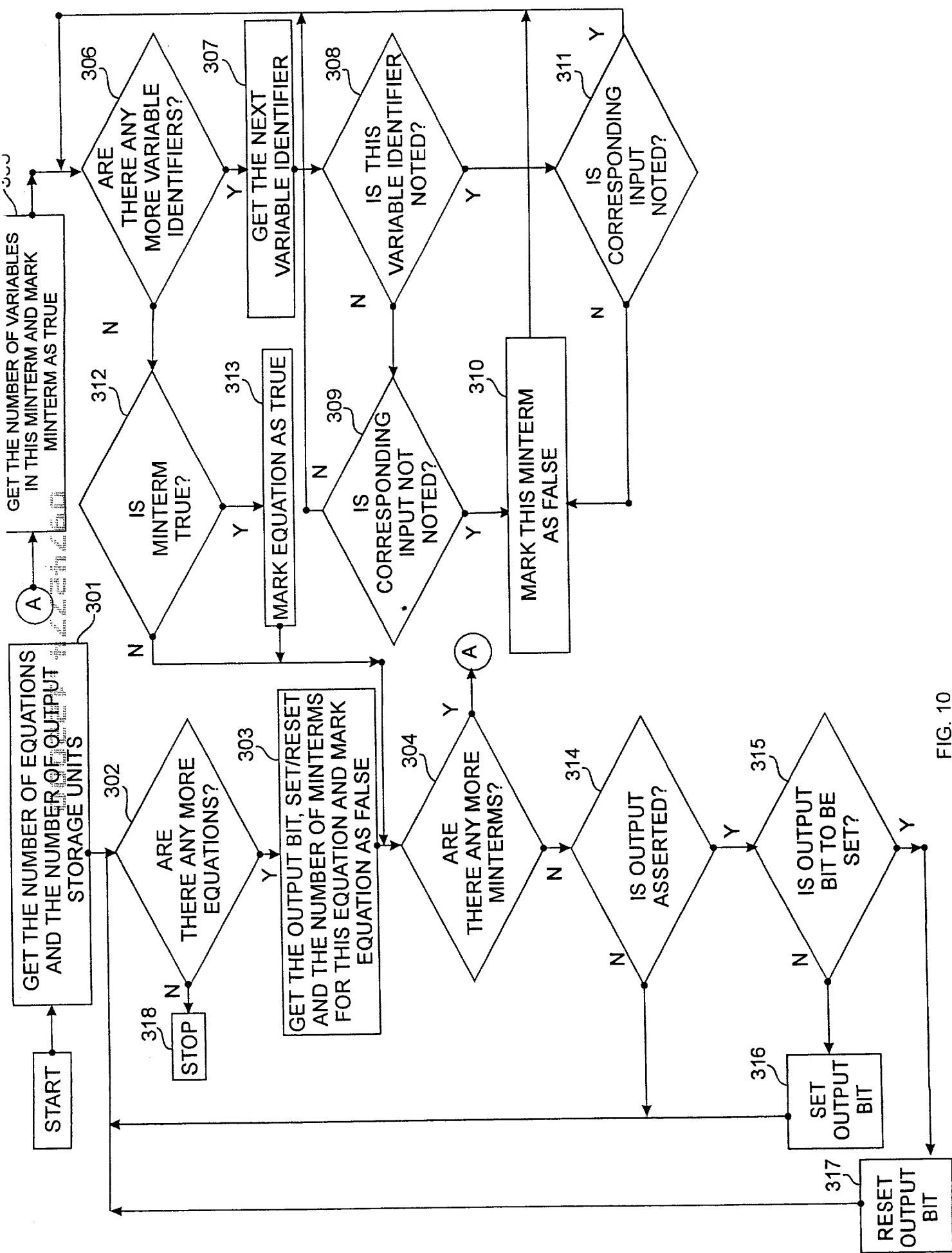


FIG. 10

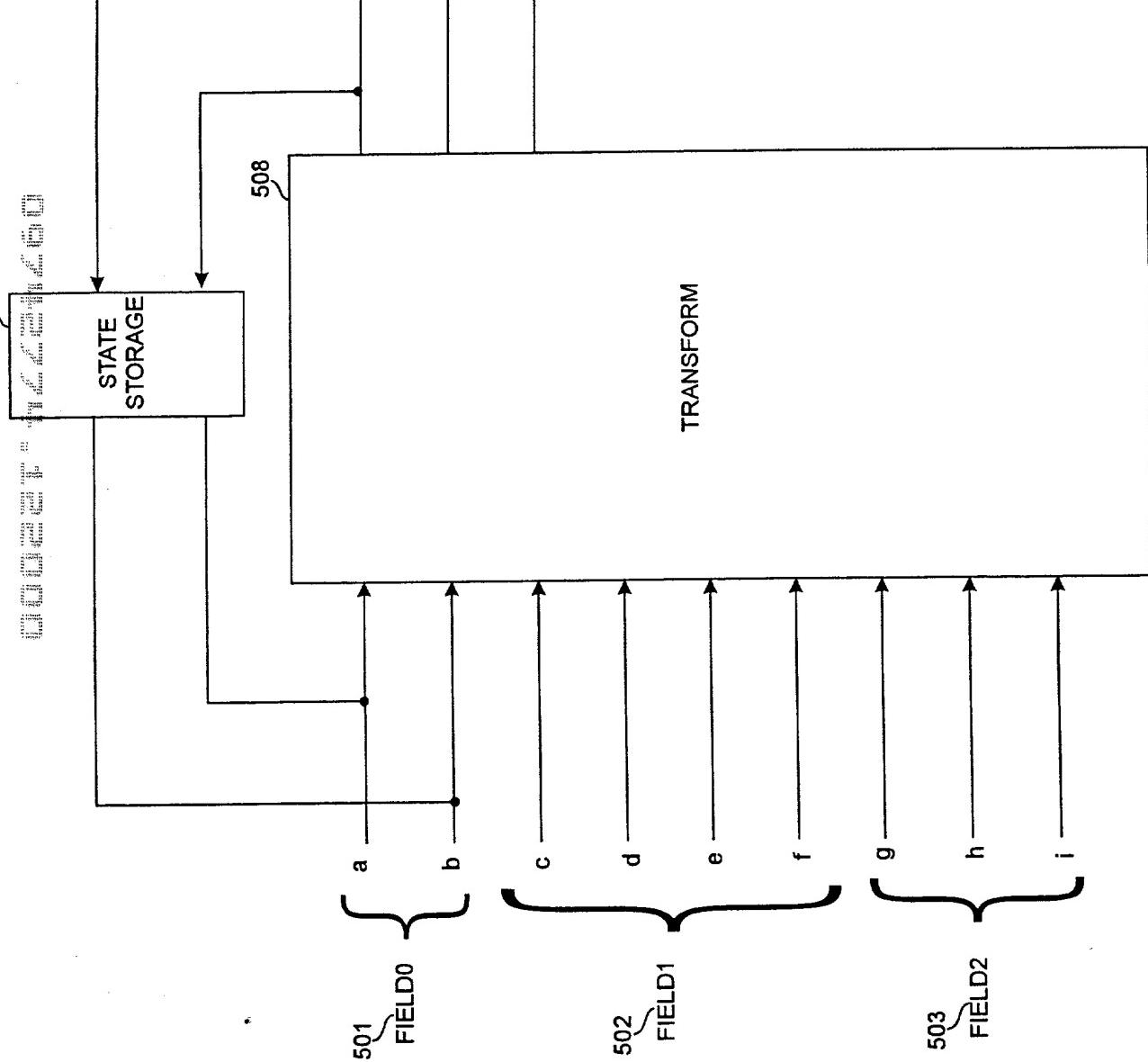
400	2 = 2#0000_0000_0000_0010#	NUMBER OF EQUATIONS
401	17 = 2# 0000_0001_0001#	LOCATION OF END OF ARRAY
402	16384 = 2#1000_0000_0000_0000#	BIT LOCATION OF EQUATION 1. EQUATION WILL BE SET
403	2 = 2#0000_0000_0000_0010#	NUMBER OF MINTERMS OF EQUATION 1
404	3 = 2#0000_0000_0011#	NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 1
405	16384 = 2#1000_0000_0000_0000#	FIRST VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 1, NOTED
406	1 = 2#0000_0000_0000_0001#	SECOND VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 1
407	16386 = 2#1000_0000_0000_0010#	THIRD VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 1
408	3 = 2#0000_0000_0000_0011#	NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 1, NOTED
409	1 = 2#0000_0000_0000_0001#	NUMBER OF VARIABLES IN MINTERM 2 OF EQUATION 1
410	1 = 2#0000_0000_0000_0001#	FIRST VARIABLE IDENTIFIER OF MINTERM 2 OF EQUATION 1
411	1 = 2#0000_0000_0000_0001#	NUMBER OF VARIABLES IN MINTERM 2 OF EQUATION 1
412	3 = 2#0000_0000_0000_0010#	BIT LOCATION OF EQUATION 2, WILL BE RESET
413	1 = 2#0000_0000_0000_0001#	NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 2
414	1 = 2#0000_0000_0000_0001#	FIRST VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 2
415	1= 2#0000_0000_0000_0000#	NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 2
416	0= 2#0000_0000_0000_0000#	END OF ARRAY

417 ~ BIT0 (TO BE SET) := NOT VARIABLE_0 AND VARIABLE_1 AND NOT VARIABLE_2 OR NOT VARIABLE_1
 418 ~ BIT3 (TO BE RESET) := NOT VARIABLE_1

FIG. 11

504

501 FIELD0
 502 FIELD1
 503 FIELD2



```

a_next := {{a,b,c,d,e,f,g,h,i}}
b_next = {{a,b,c,d,e,f,g,h,i}}
x = {{a,b,c,d,e,f,g,h,i}}
  
```

FIG. 12

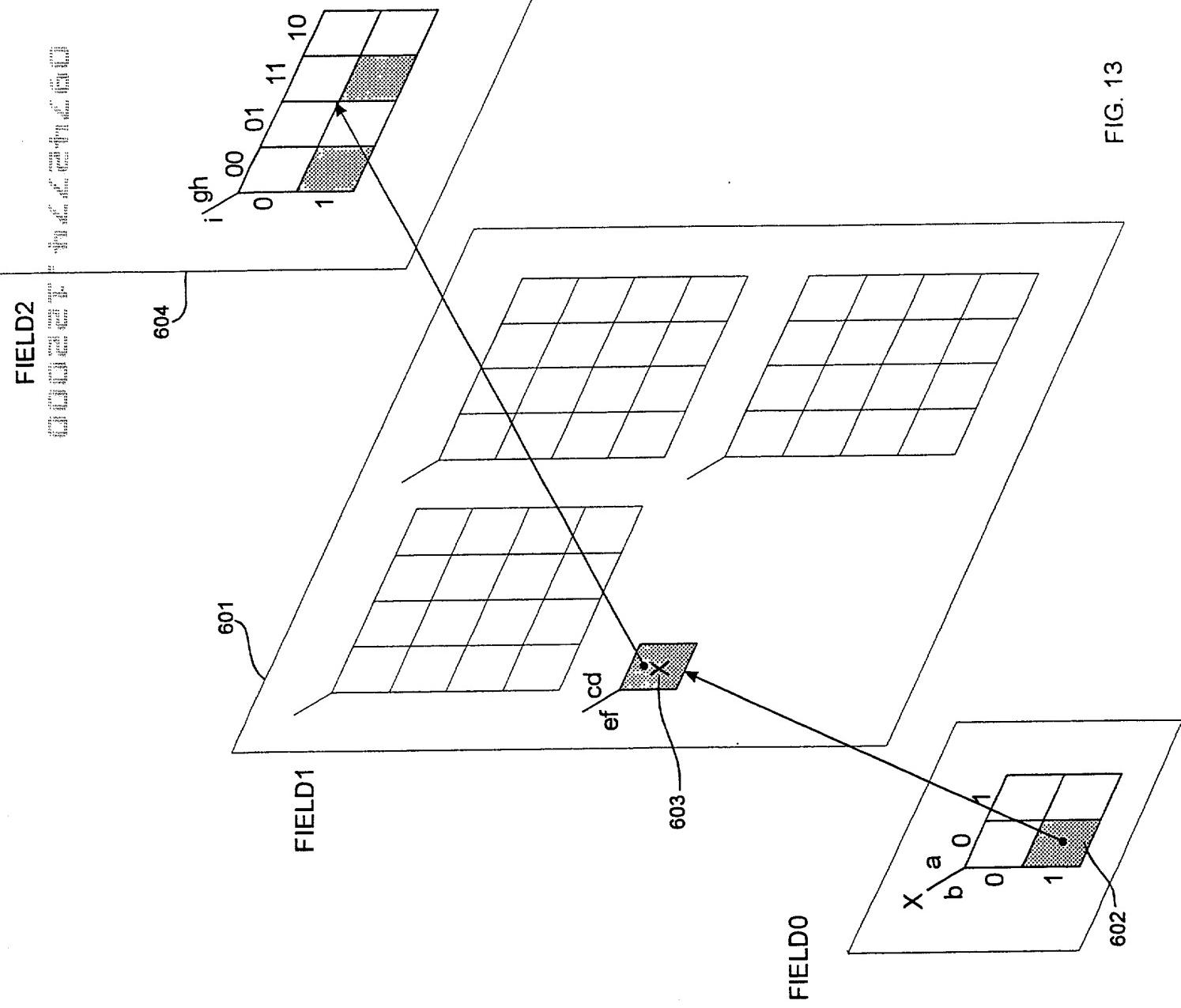
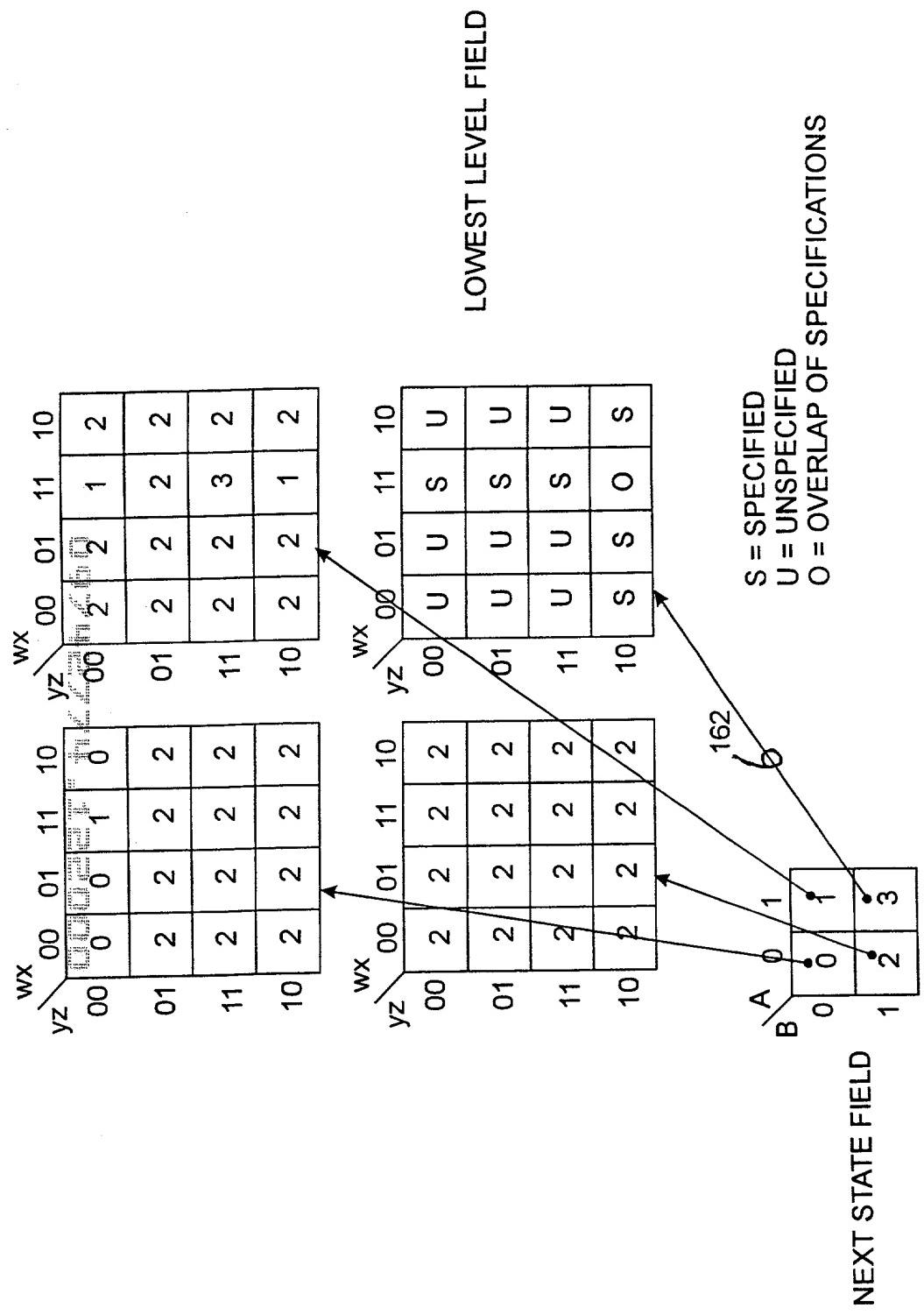


FIG. 13



THE NEXT STATE SPECIFICATIONS THAT ARE BELOW STATE FIELD COMBINATION 3, NAMELY,
 "FOR ALL COMBINATIONS WHERE ABYZ' ARE TRUE GO TO NEXT STATE 1, AND
 FOR ALL COMBINATIONS WHERE ABWX ARE TRUE GO TO NEXT STATE 2,"
 WILL RESULT IN AN OVERLAPPED (O) OR AMBIGUOUS SPECIFICATION FOR COMBINATION ABWXYZ'
 AND UNSPECIFIED (U) OR INCOMPLETE SPECIFICATION IN COMBINATIONS AB(W'Y'+W'Z+X'Y' +X'Z').

FIG. 14



ASK USER FOR THE COMBINATIONS WHOSE LOWEST LEVEL FIELDS ARE TO BE TESTED FOR COMPLETENESS AND AMBIGUITY, THEN RESET ALL PREVIOUS MARKS IN THOSE LOWEST FIELDS THAT INDICATE WHICH INPUT COMBINATIONS HAVE ALREADY HAD OUTPUTS SPECIFIED

ASK USER FOR COMBINATIONS OF INPUTS FOR WHICH OUTPUTS WILL BE NEWLY SPECIFIED

908
ANY OF THESE COMBINATIONS ALREADY SPECIFIED?
Y
N

DISPLAY TO USER THOSE COMBINATIONS OF INPUTS THAT HAVE ALREADY BEEN SPECIFIED

FOR EACH NEW COMBINATION OF INPUTS FOR WHICH THE USER SPECIFIED AN OUTPUT, MARK THAT COMBINATION OF INPUTS AS ALREADY SPECIFIED

914
IS USER DONE?
Y
N

916
ARE ANY OF THE COMBINATIONS NOT SPECIFIED?
Y
N

922
STOP

920
DISPLAY TO USER THOSE COMBINATIONS OF INPUTS THAT HAVE NOT BEEN SPECIFIED

900
↗

FIG. 15